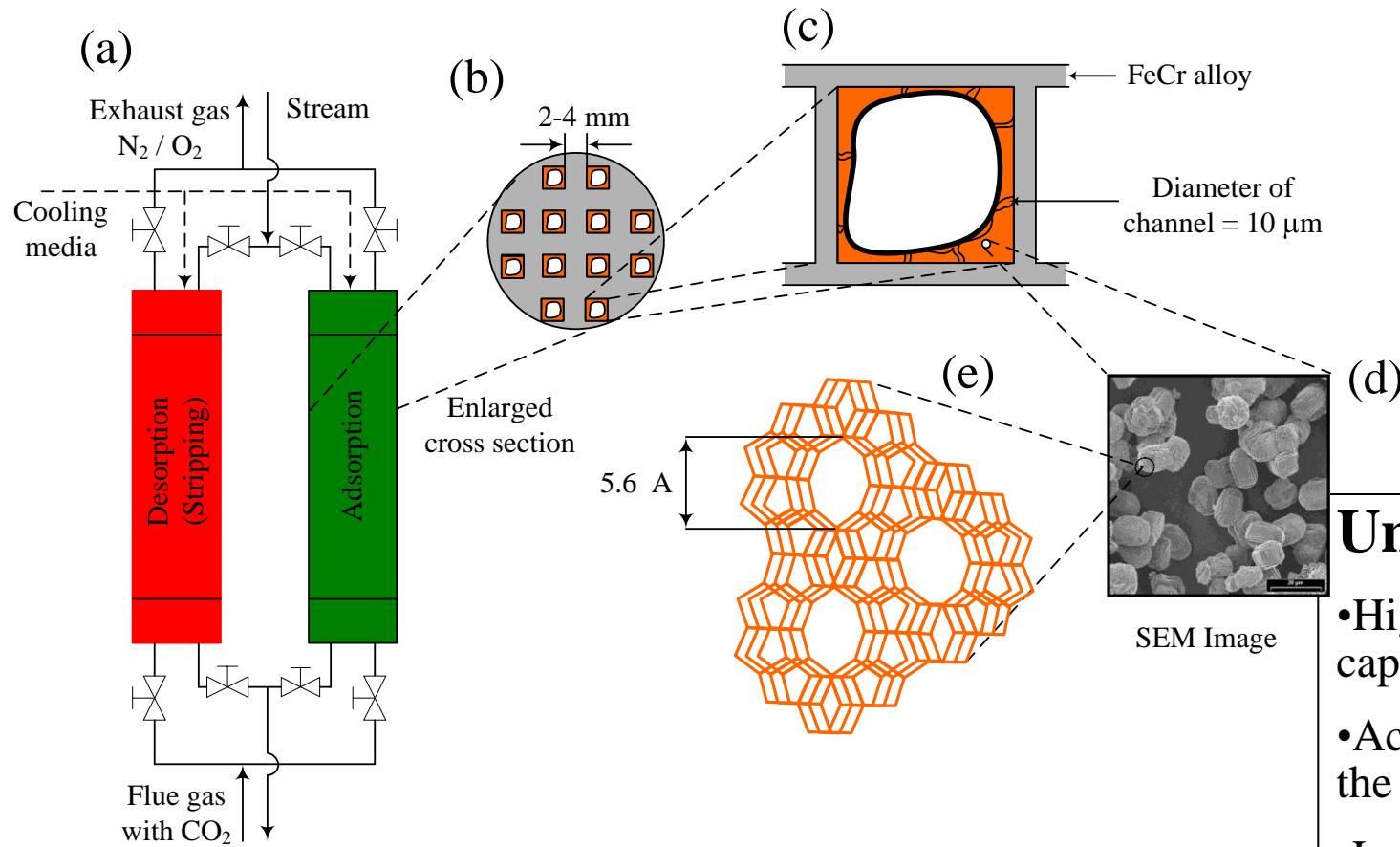


Metal Monolithic Amine-Grafted Sorbent for CO₂ Capture

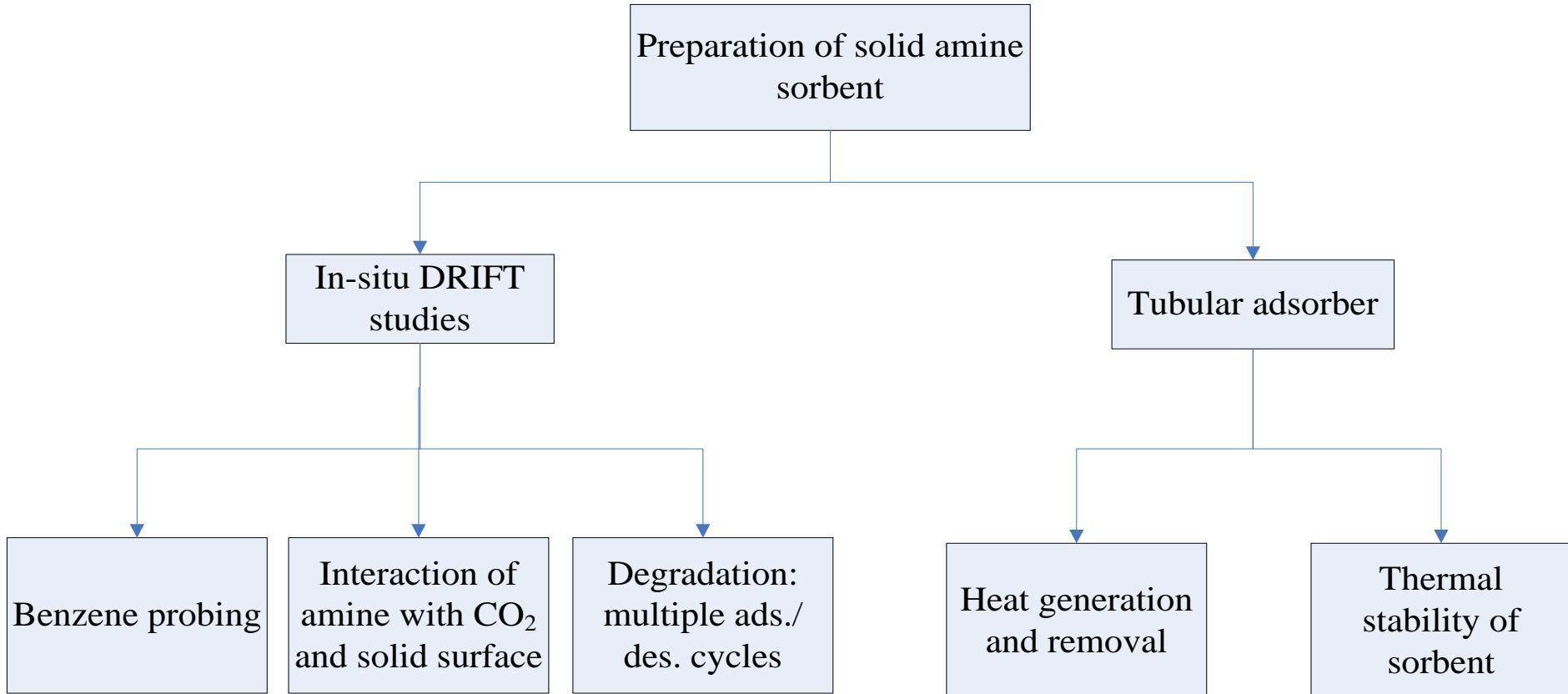
Steven S. C. Chuang, The Univ. of Akron, **DE-FC26-07NT43086**



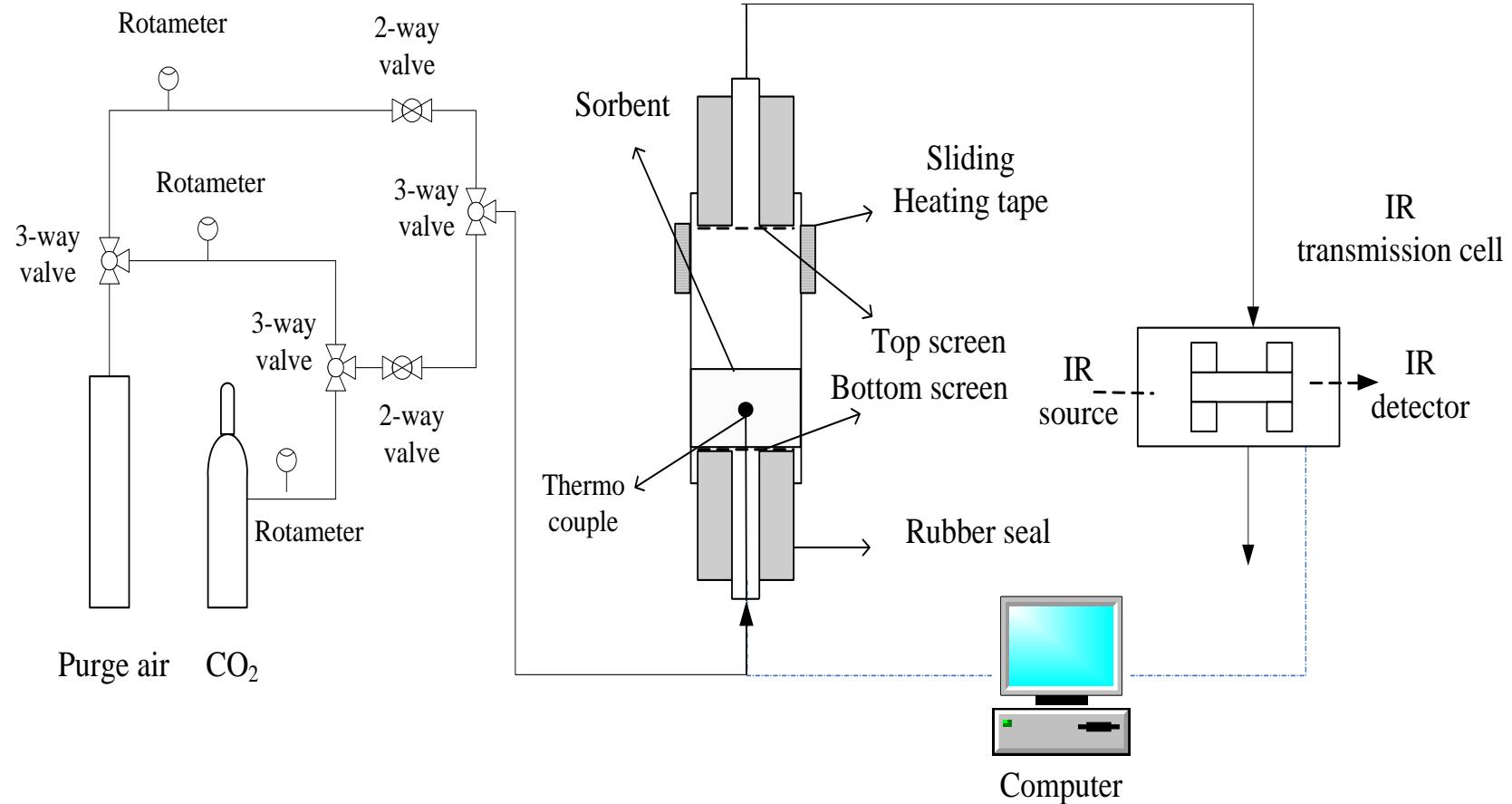
Unique features:

- High CO₂ adsorption capacity.
- Accelerated removal of the heat of adsorption.
- Low heat capacity.
- Low cost immobilized amine sorbent.

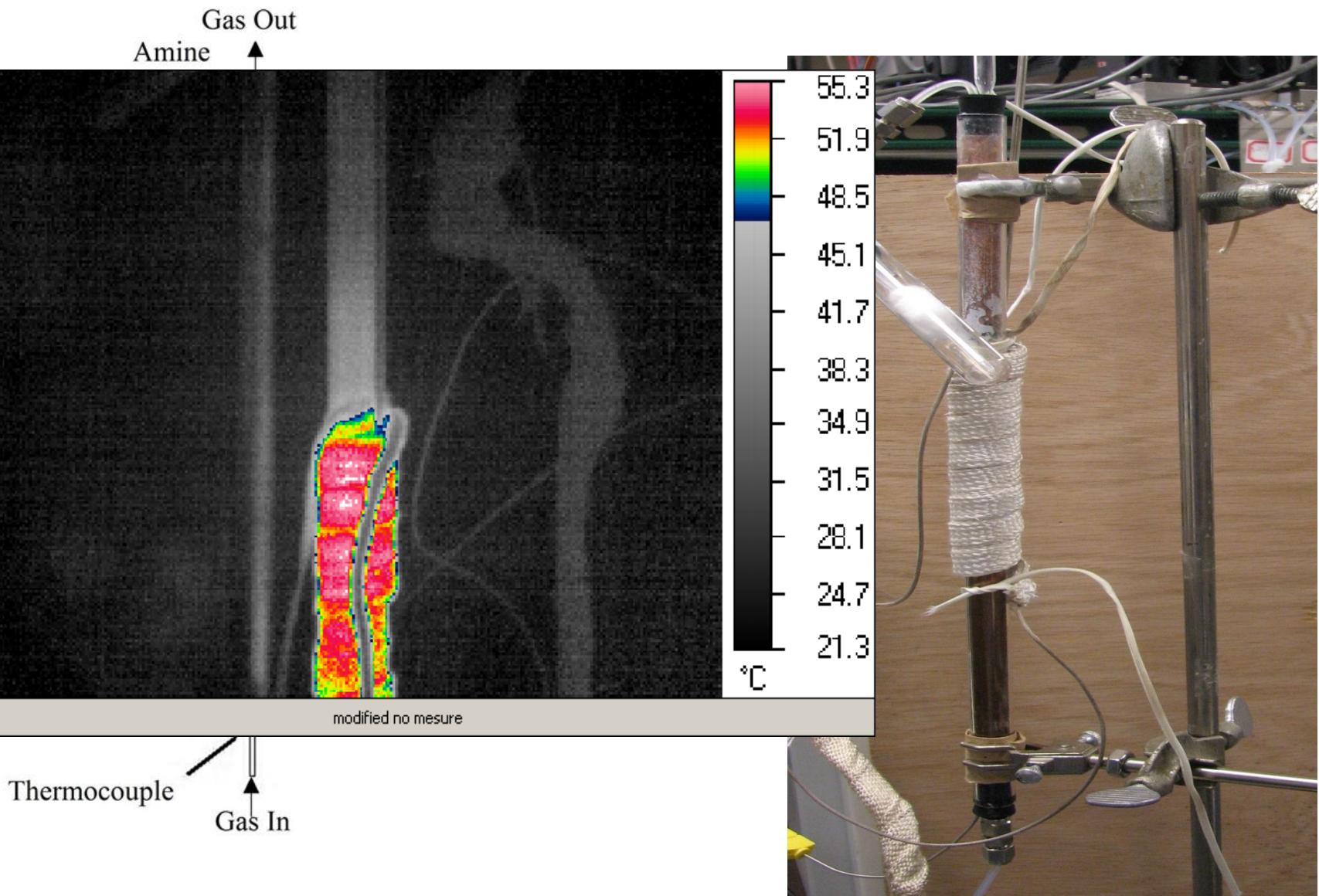
Outline



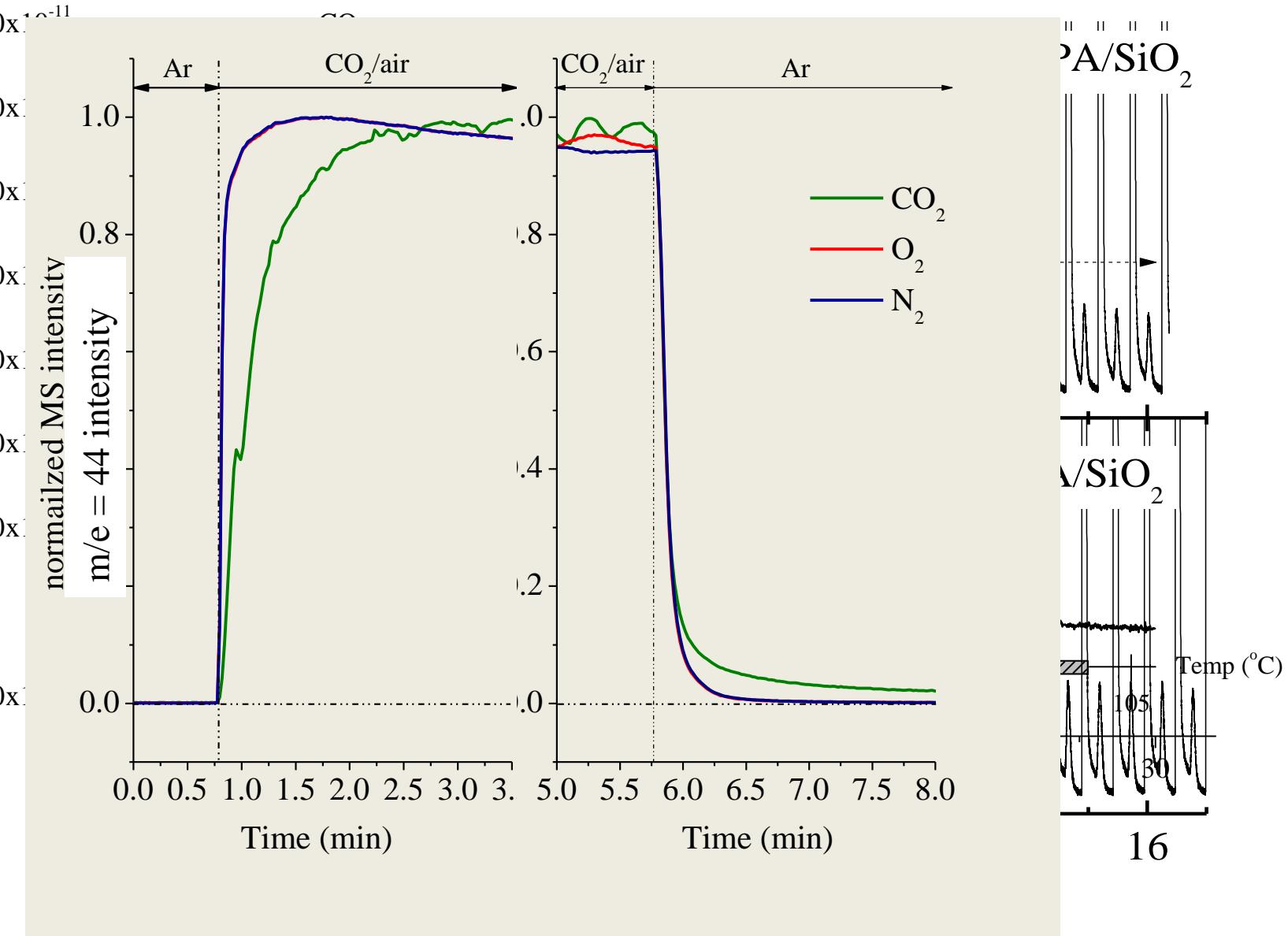
Tubular Testing



One gram scale tubular adsorber



(a)

Cyclic CO₂ adsorption/desorption study

Multiple adsorption/desorption cycles in a tubular adsorber

TPS(B)-E10 36/24/40

